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FLUSH-MOUNTED HINGED WINDOW ASSEMBLY AND
METHOD FOR MAKING SAME
ABSTRACT OF THE DISCLOSURE

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

A flush-mounted articulated window assembly for use in a vehicle, the window assembly adapted to be mounted in a window opening such that, when closed, it is generally flush with the exterior surface of the vehicle. The window assembly includes a transparent sheet with at least one window-mounting member bonded by two separate adhesives to an inner surface of the sheet. The mounting member includes projections which space the mounting member from the inner sheet surface, and/or perforations which allow air and moisture to reach the space provided between the mounting member and the inner sheet surface. A first adhesive temporarily fixtures the mounting member to the sheet. A second adhesive permanently bonds the mounting member to the inner sheet surface. The bond created is sufficiently strong such that application of a load sufficient to cause a failure results in a failure other than in the adhesion of the adhesive to the mounting member and the panel.

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ABSTRACT

A method for making a window assembly for vehicles includes applying a layer of adhesion promoting primer to at least one of an opaque frit layer on a window panel or a mounting member to be bonded to the window panel, applying an adhesive to at least one of the frit layer or mounting member, and forming a joint which bonds the mounting member to the window panel by engaging the mounting member with the frit layer such that the primer and adhesive are disposed therebetween. The joint is capable of withstanding a straight pull load of greater than at least 150 pounds applied at a rate of 25 millimeters per minute without failure.

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